

CLAIMS

1/ An extrudable material suitable for making thin films,
the material including at least one olefin polymer, and
being characterized in that it is constituted by a
5 composition containing at least one practically non-
crosslinked thermoplastic olefin polymer and a filler
content lying in the range 25% to 65% by weight of the
composition, said material in the non-divided state
having traction strength lying in the range 6 MPa to
10 20 MPa and breaking elongation lying in the range 50% to
300%.

2/ A material according to claim 1, characterized in that
it presents hardness lying in the range 35 to 55 on the
15 Shore D scale.

3/ A material according to claim 1 or claim 2,
characterized in that the polymer is selected from the
group constituted by:

- 20 • PE: polyethylenes;
- PP: polypropylenes;
- EPR: ethylene propylene rubber;
- EPDM: ethylene propylene diene monomer;
- EVA: copolymers of ethylene and lower alkyl
- 25 acetates (in particular vinyl acetate);
- EBA: copolymers of ethylene and lower alkyl
- acrylates;
- EEA: ethylene ethyl acrylate;
- EMA: ethylene methyl acrylate;
- 30 • VLDPE: very low density polyethylene;
- acrylic acid or maleic anhydride grafted polymers;
- PVC: polyvinyl chloride;
- mixtures and copolymers thereof.

35 4/ A material according to claim 1, 2, or 3,
characterized in that the filler is selected from the
group constituted by (optionally hydrated) alumina,

chalk, kaolin, talc, silicon, magnesium hydroxide, and mixtures thereof.

5/ A material according to any preceding claim,
5 characterized in that the polymer is a mixture of olefin polymers comprising one component which is PE or PP and another selected from EVA having no more than 30% vinyl acetate comonomer, EBA, EEA, and EMA, possibly also with a lubricant and additives.

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6/ A material according to any preceding claim, characterized in that, in addition optionally to a lubricant and additives other than crosslinking agents, it comprises:

15 • 50 parts of polyethylene having specific gravity of 0.92 and a melt flow index at 190° under 21.6 N of 1.8 g/10 min;

 • 50 parts EVA copolymer containing 18% vinyl acetate; and

20 • 130 parts alumina hydrate.

7/ A material according to any one of claims 1 to 4, characterized in that, in addition to a lubricant and additives, it comprises:

25 • 50 parts of polyethylene having specific gravity of 0.92 with a melt flow index at 190° under 21.6 N of 1.8 g/10 min;

 • 50 parts EVA copolymer containing 18% vinyl acetate; and

30 • 130 parts calcium carbonate.

8/ A material according to any one of claims 1 to 4, characterized in that, in addition to a lubricant and additives, it comprises:

35 • 50 parts of polyethylene having specific gravity of 0.92 with a melt flow index at 190° under 21.6 N of 1.8 g/10 min;

- 50 parts EVA copolymer containing 18% vinyl acetate; and

- 65 parts kaolin.

5 9/ A material according to any one of claims 1 to 7, containing one or more silanes or aminosilanes.

10 10/ An optical fiber micromodule comprising a bundle of optical fibers and a sheath surrounding the bundle that is made of a thin film of an extrudable material, the micromodule being characterized in that the sheath is constituted by a composition containing a thermoplastic olefin polymer and a filler content lying in the range 25% to 65% by weight of the composition, said material in
15 the non-divided state having traction strength lying in the range 6 MPa to 20 MPa and breaking elongation lying in the range 50% to 300%.